

The schematic diagram illustrates a radio receiver circuit. It begins with a power supply section on the left, featuring a transformer labeled 'CS' connected to a line labeled 'FB'. The secondary of the transformer is connected to a filter capacitor 'CR'. The main signal path starts with a tuned circuit consisting of an inductor 'LI' and a capacitor 'CI'. This is followed by a detector and amplifier stage containing two diodes, 'D1' and 'D2', and two capacitors, 'C01' and 'C02'. The output of this stage is connected to a speaker, represented by a rectangle with two semi-circles, labeled 'LAMP'. A feedback loop is shown with a line labeled 'FB' returning from the speaker to the power supply. Other components include a switch 'SW1' and a transformer 'LR' connected to the speaker.



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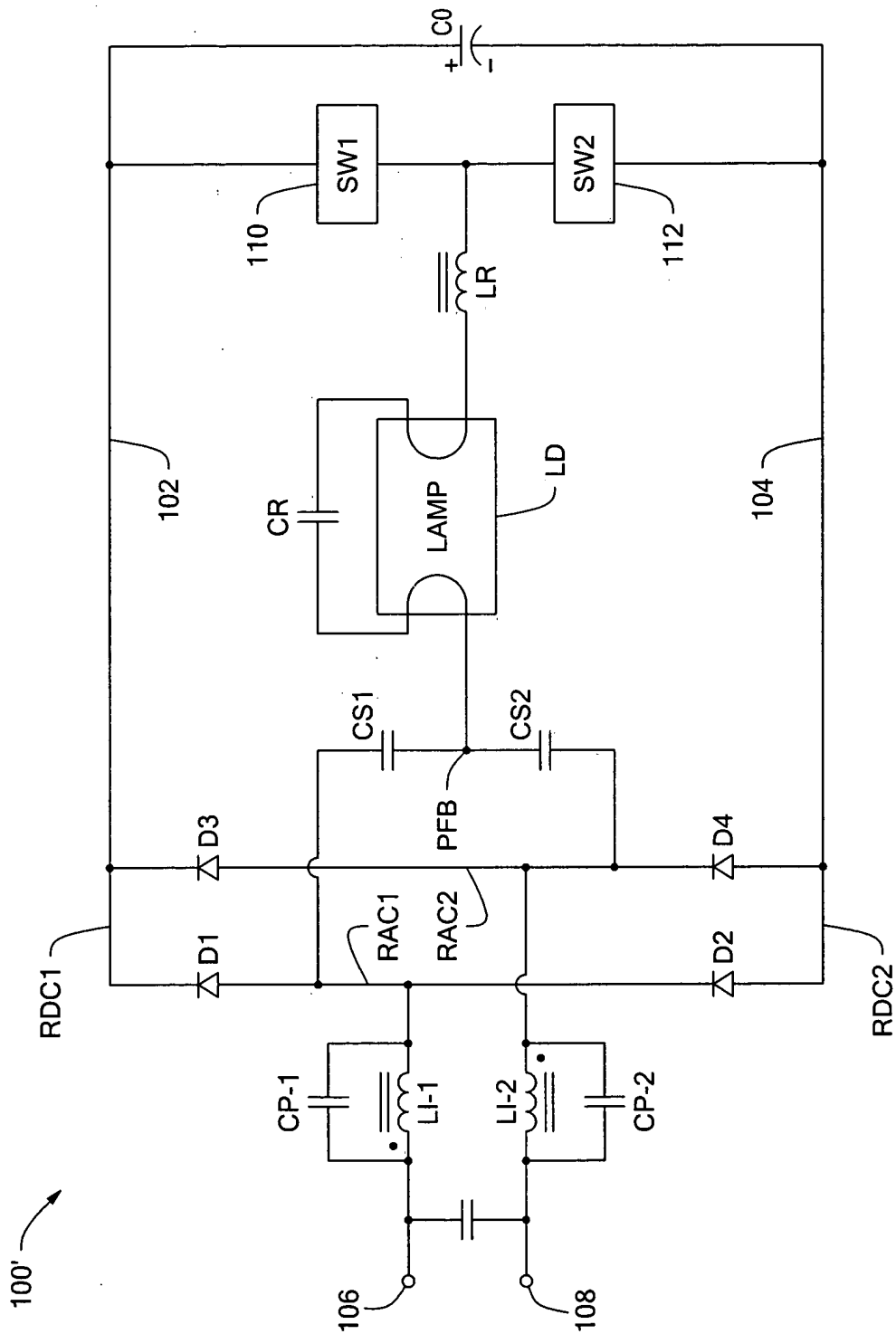
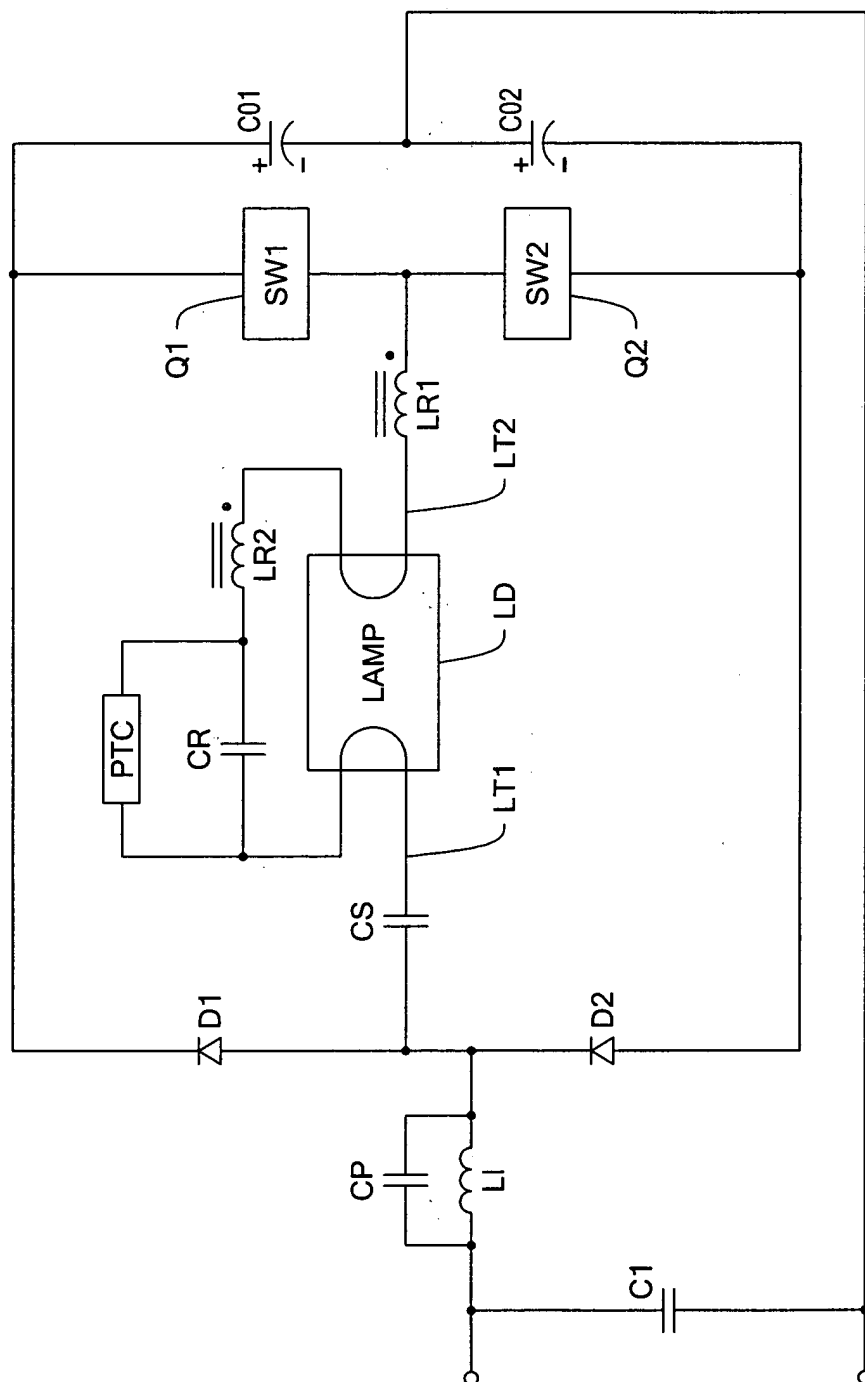




FIG. 4



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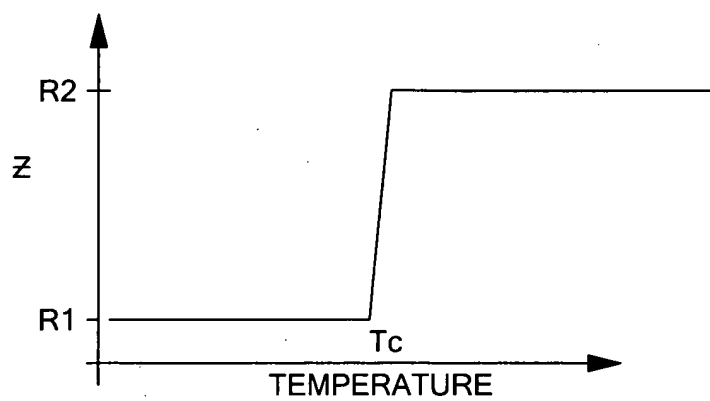


FIG. 6

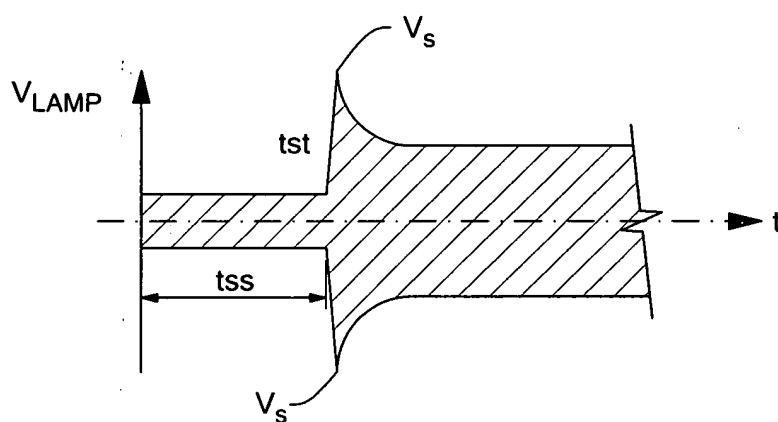


FIG. 7A

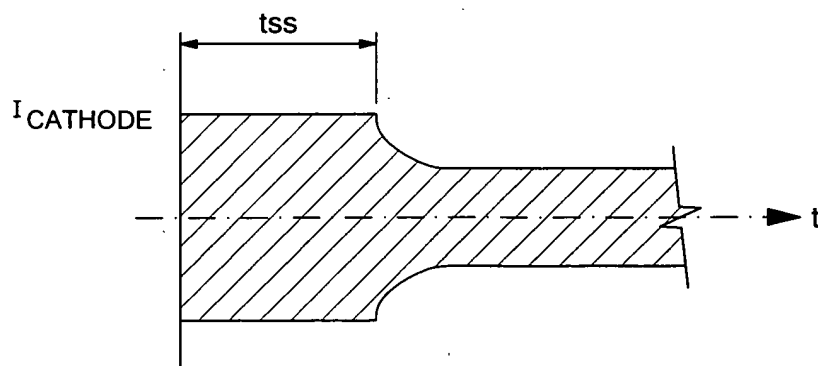


FIG. 7B



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FIG. 9
(PRIOR ART)

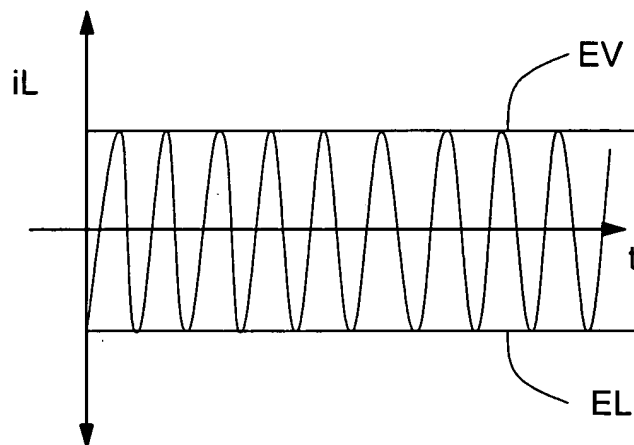


FIG. 10

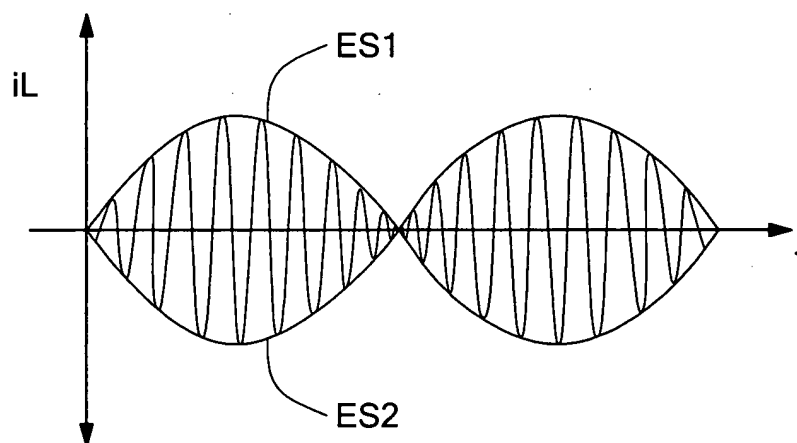
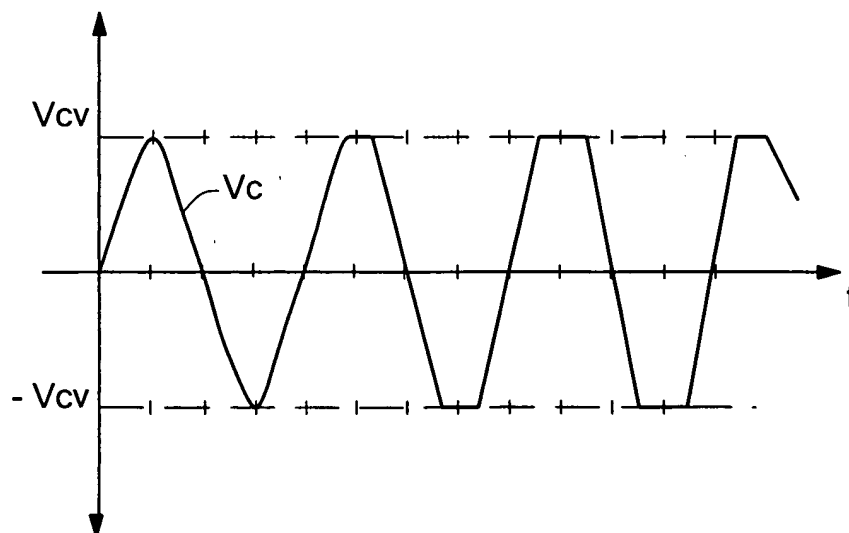


FIG. 11



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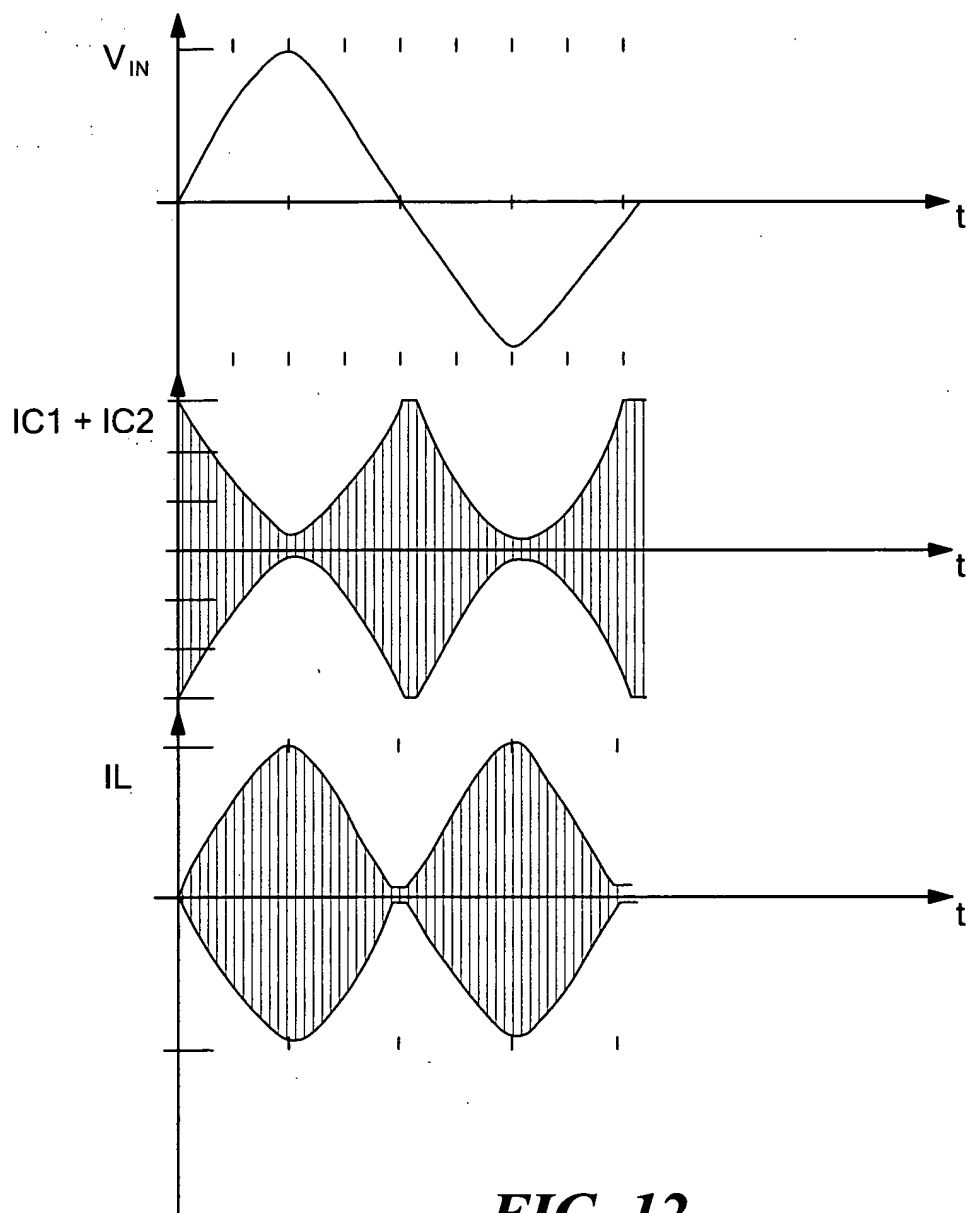


FIG. 12



FIG. 13

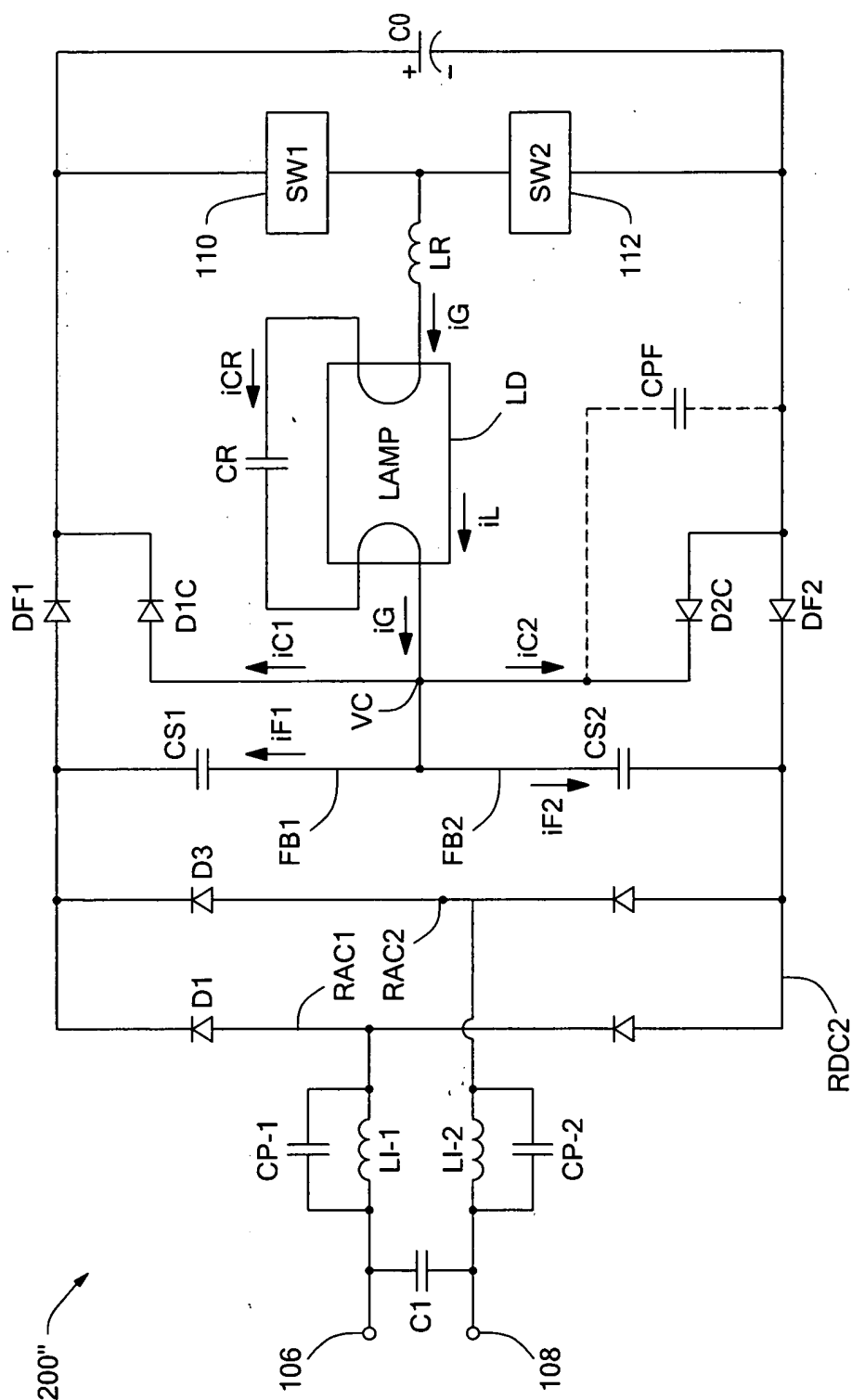


FIG. 14



FIG. 15



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REF. DESIGN.	DESCRIPTION
L3	Inductor Assy, 1.69mH (+/-3%), AL=100 130T/10T, 3x33AWG Litz, 7pin, CS-L3
L2	Inductor Assy, 1.90mH, AL=65 171T, 29AWGH, 5pin CS-L2
L1	Inductor Assy, 1.90mH, AL=65 171T, 29AWGH, 5pin CS-L2
T1	Torroid Transformer, CS1 H40-T(9x4x5) (1-1-5)T
C3	Capacitor, Ceramic, SMD, 0.1uF, 50Vdc, 10%, 1206 Pkg.
C1	Capacitor, Metallized Polyester, 5mm 0.01uF, 400Vdc, 10%
C2	Capacitor, Metallized Polyester, 5mm Epoxy-Dipped, 33nF, 250Vdc, 10%
C12	Capacitor, Polypropylene, 5mm Epoxy-Dipped, 2.7nF, 400Vdc, 10%
C5	Capacitor, Ceramic, Radial 100pF, 1000Vdc, 5mm
C8	Capacitor, Polypropylene, 5mm Epoxy-Dipped, 2.2nF, 1500V, 10%
C10	Capacitor, Polypropylene, 5mm Epoxy-Dipped, 4.7nF, 400Vdc, 10%
CO1, CO2	Capacitor, Electrolytic, (10x20)mm 33uF, 200Vdc, 105C, 5mm
D5	Diode, Axial, Glass-Passivated Fast, 1000V, 1N4007GP
D1-D4, D9-D10	Diode, Axial, Glass-Passivated Ultra-Fast, 1000V, UF4007GP
D6	Diac, Axial, 32V Db-3
RF	Fuse, Axial 3A/250V
R7, R15	Resistor, SMD, 1206 Pkg, 0 Ohm
R8, R11, R12 R14, R20, R21	Resistor, SMD, 1206 Pkg, 0 Ohm
R6, R10, R13, R16	Resistor, SMD, 1206 Pkg,
NOT USED	
R3	Resistor, SMD, 1206 Pkg, 33 Ohm, 5%, 1/4W
R5, R9	Resistor, SMD, 1206 Pkg, 20 Ohm, 1%, 1/4W
R1, R2	Resistor, SMD, 1206 Pkg, 150 kOhm, 5%, 1/4W
R4	Resistor, SMD, 1206 Pkg, 300 kOhm, 5%, 1/4W
R17-R19	Resistor, SMD, 1206 Pkg,
NOT USED	
Q1, Q2	Transistor Power, TO-220 ST13005
J1, J1	Terminal, Radial 2 pin, CSI
TH1	Thermister, PTC
NOT USED	

FIG. 17

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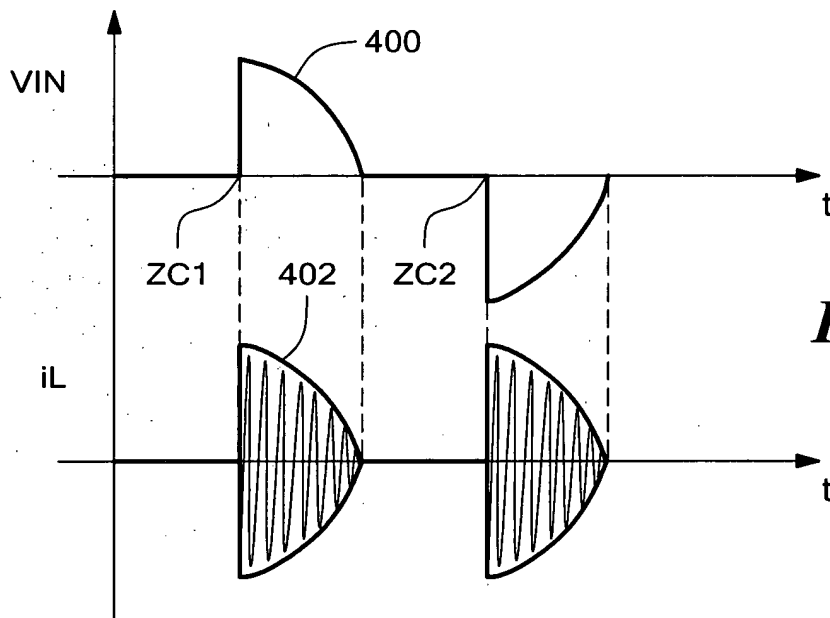


FIG. 18

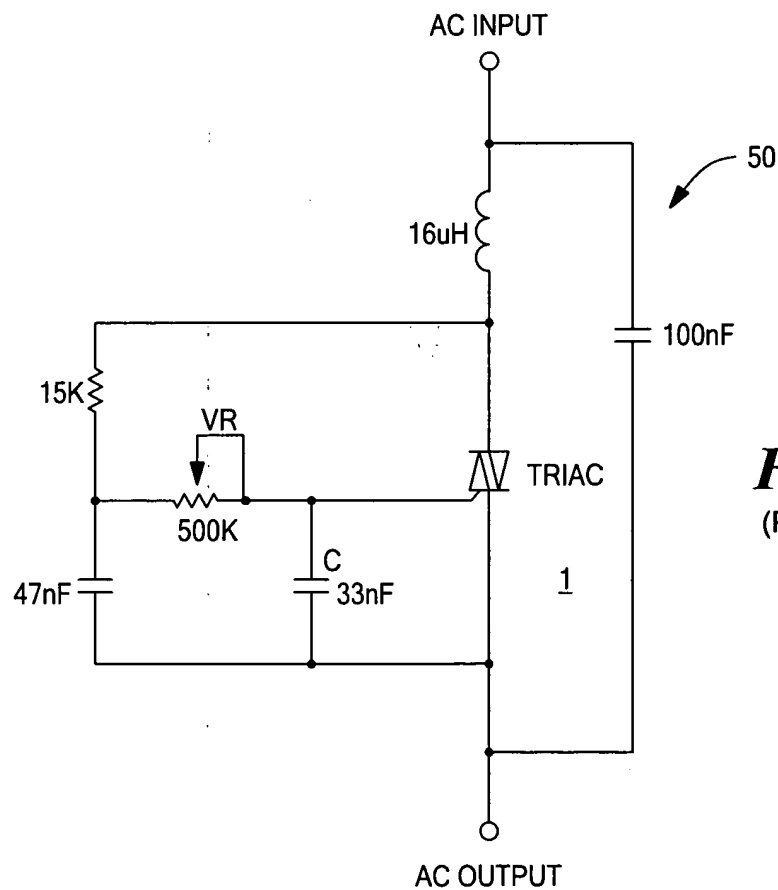


FIG. 19
(PRIOR ART)

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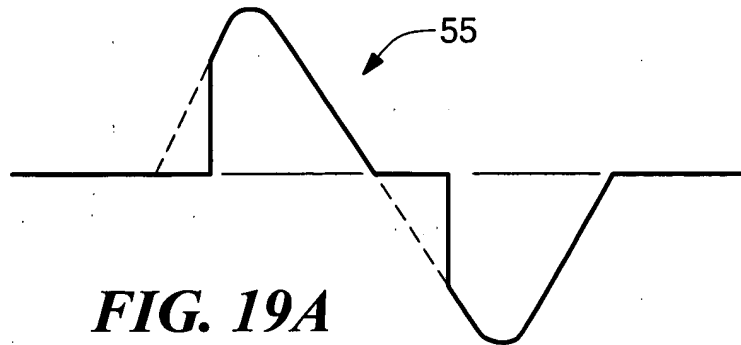


FIG. 19A
(PRIOR ART)

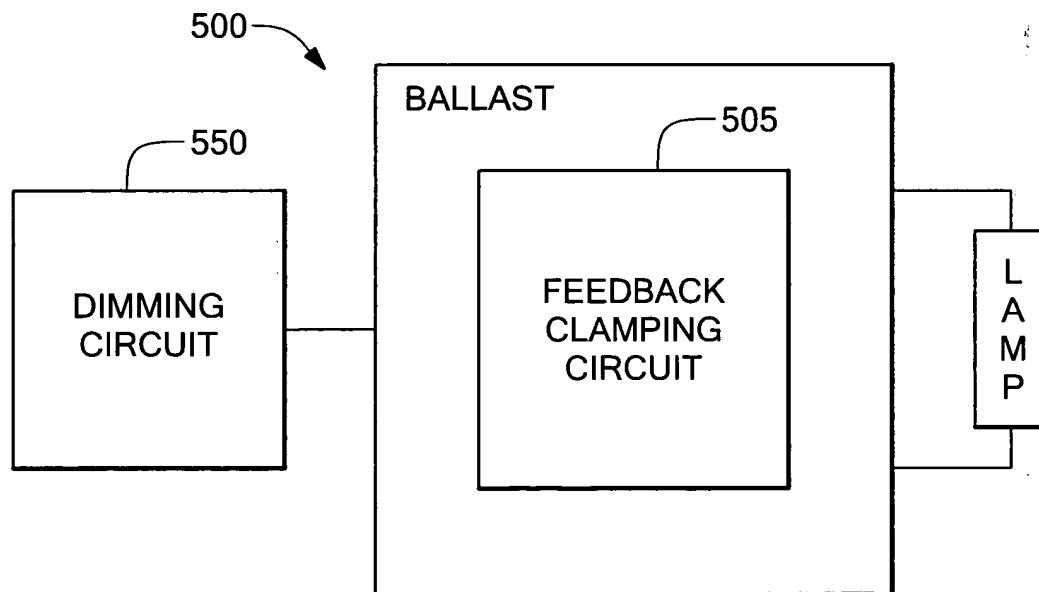


FIG. 20